

ABSTRACT OF THE DISCLOSURE

A mark-shaped pad. A bonding pad structure with at least one mark-shaped bonding pad comprises: a bottom metal layer disposed over the surface of a rectangular semiconductor substrate to connect the circuit electrically, an inter-metal dielectric layer disposed over the bottom metal layer, metal plugs formed in the inter-metal dielectric layer to connect with the bottom metal layer, a top metal layer disposed over the inter-metal dielectric layer connecting with the metal plugs, and a passivation layer disposed over the top metal layer with openings to expose the top metal layer portions as bonding pads, wherein at least one bonding pad is mark-shaped, e.g. "⊥", "⊐", "⊕" or "⌈", to indicate the orientation of the bonding pads on the rectangular semiconductor substrate.